



Les grands sabots à ailes intérieures sont préconisés dans de nombreux cas. Ils permettent d'assembler une structure efficacement sans usinage à façon et ainsi de fiabiliser l'ouvrage. De même, la multitude des applications rendues possibles par la polyvalence de ces produits les rendent aujourd'hui incontournables dans la construction. Les ailes repliées en intérieur permettent un assemblage plus discret.



[ETA-06/0270](#)  
[FR-DoP-e06/0270](#)

## CARACTÉRISTIQUES



### Matière

- Acier galvanisé S250GD + Z275 suivant NF EN 10346.
- Epaisseur 4 mm.

### Avantages

- Installation rapide et simple.
- Assemblage discret.
- Les sabots en épaisseur 4 mm permettent une résistance au feu de 30 minutes suivant l'Eurocode 5.

## APPLICATIONS

### Support

- **Porteur** : bois massif, bois composite, lamellé collé.
- **Porté** : bois massif, bois composite, fermes triangulées, profilés.

### Domaines d'utilisation

- Solives, pannes.
- Poutres lisses et montants de bardage.
- Butées de chevrons.
- Renforcement d'assemblages existants...

### SIMPSON STRONG TIE

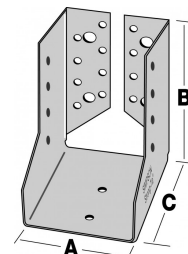
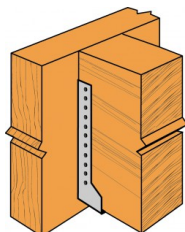
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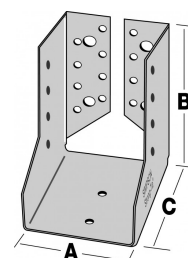
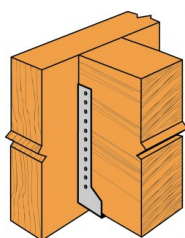
## DONNÉES TECHNIQUES

## Développé et largeur



| Références | Développé (mm) | Largeur (mm) | Profondeur (mm) |
|------------|----------------|--------------|-----------------|
| GSI300/4   | 300            | 76 - 110 mm  | 110             |
| GSI340/4   | 340            | 76 - 110 mm  | 110             |
| GSI380/4   | 380            | 76 - 136 mm  | 110             |
| GSI440/4   | 440            | 76 - 136 mm  | 110             |
| GSI500/4   | 500            | 76 - 200 mm  | 110             |
| GSI540/4   | 540            | 76 - 200 mm  | 110             |
| GSI600/4   | 600            | 76 - 200 mm  | 110             |
| GSI660/4   | 660            | 76 - 200 mm  | 110             |
| GSI720/4   | 720            | 76 - 200 mm  | 110             |
| GSI780/4   | 780            | 76 - 200 mm  | 110             |
| GSI840/4   | 840            | 76 - 200 mm  | 110             |
| GSI900/4   | 900            | 76 - 200 mm  | 110             |
| GSI960/4   | 960            | 76 - 200 mm  | 110             |
| GSI1020/4  | 1020           | 76 - 200 mm  | 110             |

## Clouage total



| Références  | Bois porté   |              | Dimensions (mm) |    |     |     | Fixations |         |       | Valeurs caractéristiques bois/bois classe C24 (kN) |       |      |      | Résistance au Feu - Valeurs Caractéristiques bois/bois Classe C24 (kN) |       |
|-------------|--------------|--------------|-----------------|----|-----|-----|-----------|---------|-------|--|-------|------|------|--|-------|
|             | Largeur (mm) | Hauteur (mm) |                 | A  | B   | C   | Ep.       | Nb      |       | Type   | Desc. | Asc. | Lat. | Tract.   | Desc. |
|             |              | Min.         | Max.            |    |     |     |           | Porteur | Porté |  |       |      |      |  |       |
| GSI380/76/4 | 76           | 162          | 228             | 76 | 152 | 110 | 2.5       | 16      | 8     | CNA4.0x50  | 17.2  | 6.9  | -    | 7.8  | -     |
| GSI440/76/4 |              | 192          | 273             | 76 | 182 | 110 | 2.5       | 22      | 12    | CNA4.0x50  | 24.5  | 11.9 | -    | 11.8   | -     |
| GSI500/76/4 |              | 222          | 318             | 76 | 212 | 110 | 2.5       | 28      | 14    | CNA4.0x50  | 31.9  | 18.1 | -    | 13.7   | -     |
| GSI380/80/4 | 80           | 160          | 225             | 80 | 150 | 110 | 2.5       | 16      | 8     | CNA4.0x50  | 16.9  | 6.9  | -    | 7.8  | -     |
| GSI440/80/4 |              | 190          | 270             | 80 | 180 | 110 | 2.5       | 22      | 12    | CNA4.0x50  | 24.1  | 11.9 | -    | 11.8   | -     |
| GSI500/80/4 |              | 220          | 315             | 80 | 210 | 110 | 2.5       | 28      | 14    | CNA4.0x50  | 31.9  | 18.1 | -    | 13.7   | -     |

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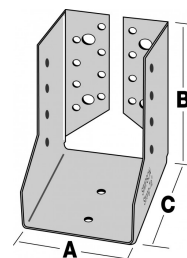
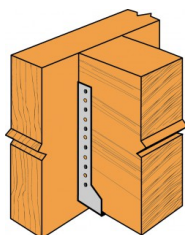
| Références    | Bois porté   |              | Dimensions (mm) |     |     |     | Fixations |         |       | Valeurs caractéristiques bois/bois classe C24 (kN) |           |      |      | Résistance au Feu - Valeurs Caractéristiques bois/bois Classe C24 (kN) |        |        |
|---------------|--------------|--------------|-----------------|-----|-----|-----|-----------|---------|-------|--|-----------|------|------|--|--------|--------|
|               | Largeur (mm) | Hauteur (mm) |                 | A   | B   | C   | Ep.       | Nb      |       | Type   | Desc.     | Asc. | Lat. | Tract.   | Desc.  |        |
|               |              | Min.         | Max.            |     |     |     |           | Porteur | Porté |  |           |      |      |  |        |        |
| GSI540/80/4   | 90           | 240          | 345             | 80  | 230 | 110 | 2.5       | 32      | 16    | CNA4.0x50  | 35.9      | 22.7 | -    | 15.7   | -      |        |
| GSI600/80/4   |              | 270          | 390             | 80  | 260 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 30.5 | -    | 19.6   | -      |        |
| GSI660/80/4   |              | 300          | 435             | 80  | 290 | 110 | 2.5       | 44      | 22    | CNA4.0x50  | 47.9      | 39   | -    | 21.6   | -      |        |
| GSI720/80/4   |              | 330          | 480             | 80  | 320 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | -    | 25.5   | -      |        |
| GSI780/80/4   |              | 360          | 525             | 80  | 350 | 110 | 2.5       | 56      | 28    | CNA4.0x50  | 59.8      | 49.6 | -    | 27.4   | -      |        |
| GSI840/80/4   |              | 390          | 570             | 80  | 380 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | -    | 31.4   | -      |        |
| GSI900/80/4   |              | 420          | 615             | 80  | 410 | 110 | 2.5       | 68      | 36    | CNA4.0x50  | 75.8      | 63.8 | -    | 33.3   | -      |        |
| GSI960/80/4   |              | 450          | 660             | 80  | 440 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | -    | 37.2   | -      |        |
| GSI1020/80/4  |              | 480          | 705             | 80  | 470 | 110 | 2.5       | 80      | 40    | CNA4.0x50  | 83.8      | 70.9 | -    | 39.2   | -      |        |
| GSI380/90/4   |              | 90           | 155             | 218 | 90  | 145 | 110       | 2.5     | 16    | 8  | CNA4.0x50 | 16.2 | 6.9  | 6.4  | 7.8    | -      |
| GSI440/90/4   |              |              | 185             | 263 | 90  | 175 | 110       | 2.5     | 22    | 12   | CNA4.0x50 | 23.2 | 11.9 | 9.2  | 11.8   | -      |
| GSI500/90/4   |              |              | 215             | 308 | 90  | 205 | 110       | 2.5     | 28    | 14   | CNA4.0x50 | 31.5 | 18.1 | 10.2   | 13.7   | -      |
| GSI540/90/4   |              |              | 235             | 338 | 90  | 225 | 110       | 2.5     | 32    | 16   | CNA4.0x50 | 35.9 | 22.7 | 11.3   | 15.7   | -      |
| GSI600/90/4   |              |              | 265             | 383 | 90  | 255 | 110       | 2.5     | 38    | 20   | CNA4.0x50 | 43.9 | 30.5 | 13.3   | 19.6   | -      |
| GSI660/90/4   |              |              | 295             | 428 | 90  | 285 | 110       | 2.5     | 44    | 22   | CNA4.0x50 | 47.9 | 39   | 13.8   | 21.6   | -      |
| GSI720/90/4   |              |              | 325             | 473 | 90  | 315 | 110       | 2.5     | 50    | 26   | CNA4.0x50 | 55.8 | 46.1 | 15.3   | 25.5   | -      |
| GSI780/90/4   | 355          |              | 518             | 90  | 345 | 110 | 2.5       | 56      | 28    | CNA4.0x50  | 59.8      | 49.6 | 15.5 | 27.4   | -      |        |
| GSI840/90/4   | 385          |              | 563             | 90  | 375 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 16.6 | 31.4   | -      |        |
| GSI900/90/4   | 415          |              | 608             | 90  | 405 | 110 | 2.5       | 68      | 36    | CNA4.0x50  | 75.8      | 63.8 | 17.6 | 33.3   | -      |        |
| GSI960/90/4   | 445          |              | 653             | 90  | 435 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 17.5 | 37.2   | -      |        |
| GSI1020/90/4  | 475          |              | 698             | 90  | 465 | 110 | 2.5       | 80      | 40    | CNA4.0x50  | 83.8      | 70.9 | 17.4 | 39.2   | -      |        |
| GSI380/100/4  | 100          |              | 150             | 210 | 100 | 140 | 110       | 2.5     | 16    | 8  | CNA4.0x50 | 15.4 | 6.9  | 6.6  | 7.8    | 1,00*  |
| GSI440/100/4  |              |              | 180             | 255 | 100 | 170 | 110       | 2.5     | 22    | 12   | CNA4.0x50 | 22.3 | 11.9 | 9.6  | 11.8   | 2,52*  |
| GSI500/100/4  |              |              | 210             | 300 | 100 | 200 | 110       | 2.5     | 28    | 14   | CNA4.0x50 | 30.5 | 18.1 | 10.7   | 13.7   | 3,55*  |
| GSI540/100/4  |              |              | 230             | 330 | 100 | 220 | 110       | 2.5     | 32    | 16   | CNA4.0x50 | 35.9 | 22.7 | 11.8   | 15.7   | 4,72*  |
| GSI600/100/4  |              | 260          | 375             | 100 | 250 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 30.5 | 14   | 19.6   | 7,30*  |        |
| GSI660/100/4  |              | 290          | 420             | 100 | 280 | 110 | 2.5       | 44      | 22    | CNA4.0x50  | 47.9      | 39   | 14.6 | 21.6   | 8,65*  |        |
| GSI720/100/4  |              | 320          | 465             | 100 | 310 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | 16.3 | 25.5   | 11,4*  |        |
| GSI780/100/4  |              | 350          | 510             | 100 | 340 | 110 | 2.5       | 56      | 28    | CNA4.0x50  | 59.8      | 49.6 | 16.6 | 27.4   | 12,76* |        |
| GSI840/100/4  |              | 380          | 555             | 100 | 370 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 17.9 | 31.4   | 15,44* |        |
| GSI900/100/4  |              | 410          | 600             | 100 | 400 | 110 | 2.5       | 68      | 36    | CNA4.0x50  | 75.8      | 63.8 | 19   | 33.3   | 18,04* |        |
| GSI960/100/4  |              | 440          | 645             | 100 | 430 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 19   | 37.2   | 19,32* |        |
| GSI1020/100/4 |              | 470          | 690             | 100 | 460 | 110 | 2.5       | 80      | 40    | CNA4.0x50  | 83.8      | 70.9 | 18.9 | 39.2   | 20,57* |        |
| GSI540/120/4  |              | 120          | 220             | 315 | 120 | 210 | 110       | 2.5     | 32    | 16   | CNA4.0x50 | 34   | 22.7 | 12.7   | 15.7   | 4,72*  |
| GSI600/120/4  |              |              | 250             | 360 | 120 | 240 | 110       | 2.5     | 38    | 20   | CNA4.0x50 | 43.1 | 30.5 | 15.2   | 19.6   | 7,30*  |
| GSI660/120/4  |              |              | 280             | 405 | 120 | 270 | 110       | 2.5     | 44    | 22   | CNA4.0x50 | 47.9 | 39   | 16   | 21.6   | 8,65*  |
| GSI720/120/4  |              |              | 310             | 450 | 120 | 300 | 110       | 2.5     | 50    | 26   | CNA4.0x50 | 55.8 | 46.1 | 18   | 25.5   | 11,40* |
| GSI780/120/4  | 340          |              | 495             | 120 | 330 | 110 | 2.5       | 56      | 28    | CNA4.0x50  | 59.8      | 49.6 | 18.5 | 27.4   | 12,76* |        |
| GSI840/120/4  | 370          |              | 540             | 120 | 360 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 20.1 | 31.4   | 15,44* |        |
| GSI900/120/4  | 400          |              | 585             | 120 | 390 | 110 | 2.5       | 68      | 36    | CNA4.0x50  | 75.8      | 63.8 | 21.5 | 33.3   | 18,04* |        |
| GSI960/120/4  | 430          |              | 630             | 120 | 420 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 21.6 | 37.2   | 19,32* |        |
| GSI1020/120/4 | 460          |              | 675             | 120 | 450 | 110 | 2.5       | 80      | 40    | CNA4.0x50  | 83.8      | 70.9 | 21.6 | 39.2   | 20,57* |        |
| GSI500/140/4  | 140          |              | 190             | 270 | 140 | 180 | 110       | 2.5     | 22    | 12   | CNA4.0x50 | 24.1 | 11.9 | 10.5   | 11.8   | 2,52*  |
| GSI540/140/4  |              | 210          | 300             | 140 | 200 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 29.5      | 15.9 | 12   | 11.8   | 3,55*  |        |
| GSI600/140/4  |              | 240          | 345             | 140 | 230 | 110 | 2.5       | 32      | 18    | CNA4.0x50  | 38.2      | 22.7 | 15   | 15.7   | 5,98*  |        |
| GSI660/140/4  |              | 270          | 390             | 140 | 260 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 30.5 | 16.1 | 19.6   | 7,30*  |        |
| GSI720/140/4  |              | 300          | 435             | 140 | 290 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 51.9      | 39   | 18.6 | 23.5   | 10,03* |        |
| GSI780/140/4  |              | 330          | 480             | 140 | 320 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | 19.3 | 25.5   | 11,40* |        |
| GSI840/140/4  |              | 360          | 525             | 140 | 350 | 110 | 2.5       | 56      | 30    | CNA4.0x50  | 63.8      | 53.2 | 21.4 | 29.4   | 14,11* |        |
| GSI900/140/4  |              | 390          | 570             | 140 | 380 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 21.8 | 31.4   | 15,44* |        |
| GSI960/140/4  |              | 420          | 615             | 140 | 410 | 110 | 2.5       | 68      | 34    | CNA4.0x50  | 71.8      | 60.3 | 22.2 | 33.3   | 16,75* |        |
| GSI1020/140/4 |              | 450          | 660             | 140 | 440 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 23.8 | 37.2   | 19,32* |        |
| GSI500/160/4  | 160          | 180          | 255             | 160 | 170 | 110 | 2.5       | 22      | 12    | CNA4.0x50  | 22.3      | 11.9 | 10.7 | 11.8   | 2,52*  |        |
| GSI540/160/4  |              | 200          | 285             | 160 | 190 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 27.6      | 15.9 | 12.3 | 11.8   | 3,55*  |        |

| Références    | Bois porté   |              | Dimensions (mm) |     |     |     | Fixations |         |       | Valeurs caractéristiques bois/bois classe C24 (kN) |           |      |      | Résistance au Feu - Valeurs Caractéristiques bois/bois Classe C24 (kN) |        |       |
|---------------|--------------|--------------|-----------------|-----|-----|-----|-----------|---------|-------|--|-----------|------|------|--|--------|-------|
|               | Largeur (mm) | Hauteur (mm) |                 | A   | B   | C   | Ep.       | Nb      |       | Type   | Desc.     | Asc. | Lat. | Tract.   | Desc.  |       |
|               |              | Min.         | Max.            |     |     |     |           | Porteur | Porté |  |           |      |      |  |        |       |
| GSI600/160/4  | 160          | 230          | 330             | 160 | 220 | 110 | 2.5       | 32      | 18    | CNA4.0x50  | 36.1      | 22.7 | 15.5 | 15.7   | 5,98*  |       |
| GSI660/160/4  |              | 260          | 375             | 160 | 250 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 51.9      | 39   | 20.1 | 19.6   | 7,30*  |       |
| GSI720/160/4  |              | 290          | 420             | 160 | 280 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 51.9      | 39   | 19.5 | 23.5   | 10,03* |       |
| GSI780/160/4  |              | 320          | 465             | 160 | 310 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | 20.4 | 25.5   | 11,40* |       |
| GSI840/160/4  |              | 350          | 510             | 160 | 340 | 110 | 2.5       | 56      | 30    | CNA4.0x50  | 63.8      | 53.2 | 22.7 | 29.4   | 14,11* |       |
| GSI900/160/4  |              | 380          | 555             | 160 | 370 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 23.3 | 31.4   | 15,44* |       |
| GSI960/160/4  |              | 410          | 600             | 160 | 400 | 110 | 2.5       | 68      | 34    | CNA4.0x50  | 71.8      | 60.3 | 23.8 | 33.3   | 16,75* |       |
| GSI1020/160/4 |              | 440          | 645             | 160 | 430 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 25.6 | 37.2   | 19,32* |       |
| GSI500/180/4  |              | 180          | 170             | 240 | 180 | 160 | 110       | 2.5     | 22    | 12   | CNA4.0x50 | 20.3 | 11.9 | 10.9   | 11.8   | 2,52* |
| GSI540/180/4  |              |              | 190             | 270 | 180 | 180 | 110       | 2.5     | 26    | 14   | CNA4.0x50 | 25.4 | 15.9 | 12.6   | 11.8   | 3,55* |
| GSI600/180/4  | 220          |              | 315             | 180 | 210 | 110 | 2.5       | 32      | 18    | CNA4.0x50  | 33.8      | 22.7 | 15.9 | 15.7   | 5,98*  |       |
| GSI660/180/4  | 250          |              | 360             | 180 | 240 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 51.9      | 39   | 20.7 | 19.6   | 7,30*  |       |
| GSI720/180/4  | 280          |              | 405             | 180 | 270 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 51.9      | 39   | 20.1 | 23.5   | 10,03* |       |
| GSI780/180/4  | 310          |              | 450             | 180 | 300 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | 21.2 | 25.5   | 11,40* |       |
| GSI840/180/4  | 340          |              | 495             | 180 | 330 | 110 | 2.5       | 56      | 30    | CNA4.0x50  | 63.8      | 53.2 | 23.7 | 29.4   | 14,11* |       |
| GSI900/180/4  | 370          |              | 540             | 180 | 360 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 24.5 | 31.4   | 15,44* |       |
| GSI960/180/4  | 400          |              | 585             | 180 | 390 | 110 | 2.5       | 68      | 34    | CNA4.0x50  | 71.8      | 60.3 | 25.1 | 33.3   | 16,75* |       |
| GSI1020/180/4 | 430          |              | 630             | 180 | 420 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 27.2 | 37.2   | 19,32* |       |
| GSI500/200/4  | 200          | 160          | 225             | 200 | 150 | 110 | 2.5       | 22      | 12    | CNA4.0x50  | 18.3      | 11.9 | 11.1 | 11.8   | 2,52*  |       |
| GSI540/200/4  |              | 180          | 255             | 200 | 170 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 23.2      | 15.9 | 12.8 | 11.8   | 3,55*  |       |
| GSI600/200/4  |              | 210          | 300             | 200 | 200 | 110 | 2.5       | 32      | 18    | CNA4.0x50  | 31.3      | 22.7 | 16.2 | 15.7   | 5,98*  |       |
| GSI660/200/4  |              | 240          | 345             | 200 | 230 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 50.3      | 39   | 21.1 | 19.6   | 7,30*  |       |
| GSI720/200/4  |              | 270          | 390             | 200 | 260 | 110 | 2.5       | 44      | 24    | CNA4.0x50  | 50.3      | 39   | 20.7 | 23.5   | 10,03* |       |
| GSI780/200/4  |              | 300          | 435             | 200 | 290 | 110 | 2.5       | 50      | 26    | CNA4.0x50  | 55.8      | 46.1 | 21.8 | 25.5   | 11,40* |       |
| GSI840/200/4  |              | 330          | 480             | 200 | 320 | 110 | 2.5       | 56      | 30    | CNA4.0x50  | 63.8      | 53.2 | 24.5 | 29.4   | 14,11* |       |
| GSI900/200/4  |              | 360          | 525             | 200 | 350 | 110 | 2.5       | 62      | 32    | CNA4.0x50  | 67.8      | 56.7 | 25.4 | 31.4   | 15,44* |       |
| GSI960/200/4  |              | 390          | 570             | 200 | 380 | 110 | 2.5       | 68      | 34    | CNA4.0x50  | 71.8      | 60.3 | 26.2 | 33.3   | 16,75* |       |
| GSI1020/200/4 |              | 420          | 615             | 200 | 410 | 110 | 2.5       | 74      | 38    | CNA4.0x50  | 79.8      | 67.4 | 28.5 | 37.2   | 19,32* |       |

Les dimensions A, B et C sont les dimensions intérieures du sabot.

\*Les valeurs de résistance au feu sont des valeurs caractéristiques R30 données pour une situation d'incendie de 30 minutes. Les pointes à utiliser sont alors exclusivement des CNA Ø4,0x75 mm. Pour rappel, en situation d'incendie, les coefficients de sécurité à appliquer sont différents. Voir exemple de calcul d'un sabot après 30 min en condition de feu dans la rubrique "Notes techniques" de ce site.

## Clouage partiel



| Références  | Bois porté   |              | Dimensions (mm) |    |     |     | Fixations |         |       | Valeurs caractéristiques bois/bois classe C24 (kN) |       |      |      |        |
|-------------|--------------|--------------|-----------------|----|-----|-----|-----------|---------|-------|--|-------|------|------|--------|
|             | Largeur (mm) | Hauteur (mm) |                 | A  | B   | C   | Ep.       | Nb      |       | Type   | Desc. | Asc. | Lat. | Tract. |
|             |              | Min.         | Max.            |    |     |     |           | Porteur | Porté |  |       |      |      |        |
| GSI380/76/4 | 76           | 162          | 228             | 76 | 152 | 110 | 2.5       | 8       | 4     | CNA4.0x50  | 10.1  | 3.3  | 3    | 3.9    |
| GSI440/76/4 |              | 192          | 273             | 76 | 182 | 110 | 2.5       | 12      | 6     | CNA4.0x50  | 14.5  | 6.7  | 4.3  | 5.9    |

### SIMPSON STRONG TIE

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GSI 4 - Grands sabots à ailes intérieures

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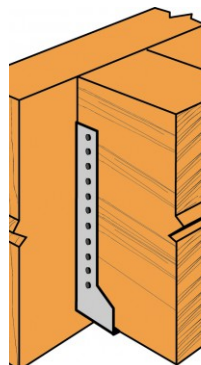
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| Références    | Bois porté   |              | Dimensions (mm) |     |     |     | Fixations |         |           |           | Valeurs caractéristiques bois/bois classe C24 (kN) |      |      |        |
|---------------|--------------|--------------|-----------------|-----|-----|-----|-----------|---------|-----------|-----------|--|------|------|--------|
|               | Largeur (mm) | Hauteur (mm) |                 | A   | B   | C   | Ep.       | Nb      |           | Type      | Desc.  | Asc. | Lat. | Tract. |
|               |              | Min.         | Max.            |     |     |     |           | Porteur | Porté     |           |  |      |      |        |
| GSI500/76/4   | 80           | 222          | 318             | 76  | 212 | 110 | 2.5       | 14      | 8         | CNA4.0x50 | 18   | 8.8  | 5.4  | 6.9    |
| GSI380/80/4   |              | 160          | 225             | 80  | 150 | 110 | 2.5       | 8       | 4         | CNA4.0x50 | 9.9  | 3.3  | 3.1  | 3.9    |
| GSI440/80/4   |              | 190          | 270             | 80  | 180 | 110 | 2.5       | 12      | 6         | CNA4.0x50 | 14.3   | 6.7  | 4.4  | 5.9    |
| GSI500/80/4   |              | 220          | 315             | 80  | 210 | 110 | 2.5       | 14      | 8         | CNA4.0x50 | 17.8   | 8.8  | 5.5  | 6.9    |
| GSI540/80/4   |              | 240          | 345             | 80  | 230 | 110 | 2.5       | 16      | 8         | CNA4.0x50 | 19.9   | 11.1 | 5.3  | 7.8    |
| GSI600/80/4   |              | 270          | 390             | 80  | 260 | 110 | 2.5       | 20      | 10        | CNA4.0x50 | 23.9   | 16.3 | 6.2  | 9.8    |
| GSI660/80/4   |              | 300          | 435             | 80  | 290 | 110 | 2.5       | 22      | 12        | CNA4.0x50 | 27.9   | 19.2 | 7    | 10.8   |
| GSI720/80/4   |              | 330          | 480             | 80  | 320 | 110 | 2.5       | 26      | 14        | CNA4.0x50 | 31.9   | 24.8 | 7.6  | 12.7   |
| GSI780/80/4   |              | 360          | 525             | 80  | 350 | 110 | 2.5       | 28      | 14        | CNA4.0x50 | 31.9   | 24.8 | 7.1  | 13.7   |
| GSI840/80/4   |              | 390          | 570             | 80  | 380 | 110 | 2.5       | 32      | 16        | CNA4.0x50 | 35.9   | 28.4 | 7.6  | 15.7   |
| GSI900/80/4   |              | 420          | 615             | 80  | 410 | 110 | 2.5       | 34      | 18        | CNA4.0x50 | 39.9   | 31.9 | 8    | 16.7   |
| GSI960/80/4   |              | 450          | 660             | 80  | 440 | 110 | 2.5       | 38      | 20        | CNA4.0x50 | 43.9   | 35.5 | 8.4  | 18.6   |
| GSI1020/80/4  |              | 480          | 705             | 80  | 470 | 110 | 2.5       | 40      | 20        | CNA4.0x50 | 43.9   | 35.5 | 7.9  | 19.6   |
| GSI380/90/4   |              | 90           | 155             | 218 | 90  | 145 | 110       | 2.5     | 8         | 4         | CNA4.0x50  | 9.6  | 3.3  | 3.2    |
| GSI440/90/4   | 185          |              | 263             | 90  | 175 | 110 | 2.5       | 12      | 6         | CNA4.0x50 | 13.8   | 6.7  | 4.6  | 5.9    |
| GSI500/90/4   | 215          |              | 308             | 90  | 205 | 110 | 2.5       | 14      | 8         | CNA4.0x50 | 17.3   | 8.8  | 5.8  | 6.9    |
| GSI540/90/4   | 235          |              | 338             | 90  | 225 | 110 | 2.5       | 16      | 8         | CNA4.0x50 | 19.9   | 11.1 | 5.6  | 7.8    |
| GSI600/90/4   | 265          |              | 383             | 90  | 255 | 110 | 2.5       | 20      | 10        | CNA4.0x50 | 23.9   | 16.3 | 6.6  | 9.8    |
| GSI660/90/4   | 295          |              | 428             | 90  | 285 | 110 | 2.5       | 22      | 12        | CNA4.0x50 | 27.9   | 19.2 | 7.5  | 10.8   |
| GSI720/90/4   | 325          |              | 473             | 90  | 315 | 110 | 2.5       | 26      | 14        | CNA4.0x50 | 31.9   | 24.8 | 8.2  | 12.7   |
| GSI780/90/4   | 355          |              | 518             | 90  | 345 | 110 | 2.5       | 28      | 14        | CNA4.0x50 | 31.9   | 24.8 | 7.7  | 13.7   |
| GSI840/90/4   | 385          |              | 563             | 90  | 375 | 110 | 2.5       | 32      | 16        | CNA4.0x50 | 35.9   | 28.4 | 8.3  | 15.7   |
| GSI900/90/4   | 415          |              | 608             | 90  | 405 | 110 | 2.5       | 34      | 18        | CNA4.0x50 | 39.9   | 31.9 | 8.8  | 16.7   |
| GSI960/90/4   | 445          |              | 653             | 90  | 435 | 110 | 2.5       | 38      | 20        | CNA4.0x50 | 43.9   | 35.5 | 9.2  | 18.6   |
| GSI1020/90/4  | 475          | 698          | 90              | 465 | 110 | 2.5 | 40        | 20      | CNA4.0x50 | 43.9      | 35.5   | 8.7  | 19.6 |        |
| GSI380/100/4  | 100          | 150          | 210             | 100 | 140 | 110 | 2.5       | 8       | 4         | CNA4.0x50 | 9.2  | 3.3  | 3.3  | 3.9    |
| GSI440/100/4  |              | 180          | 255             | 100 | 170 | 110 | 2.5       | 12      | 6         | CNA4.0x50 | 13.3   | 6.7  | 4.8  | 5.9    |
| GSI500/100/4  |              | 210          | 300             | 100 | 200 | 110 | 2.5       | 14      | 8         | CNA4.0x50 | 16.8   | 8.8  | 6.1  | 6.9    |
| GSI540/100/4  |              | 230          | 330             | 100 | 220 | 110 | 2.5       | 16      | 8         | CNA4.0x50 | 19.9   | 11.1 | 5.9  | 7.8    |
| GSI600/100/4  |              | 260          | 375             | 100 | 250 | 110 | 2.5       | 20      | 10        | CNA4.0x50 | 23.9   | 16.3 | 7    | 9.8    |
| GSI660/100/4  |              | 290          | 420             | 100 | 280 | 110 | 2.5       | 22      | 12        | CNA4.0x50 | 27.9   | 19.2 | 8    | 10.8   |
| GSI720/100/4  |              | 320          | 465             | 100 | 310 | 110 | 2.5       | 26      | 14        | CNA4.0x50 | 31.9   | 24.8 | 8.8  | 12.7   |
| GSI780/100/4  |              | 350          | 510             | 100 | 340 | 110 | 2.5       | 28      | 14        | CNA4.0x50 | 31.9   | 24.8 | 8.3  | 13.7   |
| GSI840/100/4  |              | 380          | 555             | 100 | 370 | 110 | 2.5       | 32      | 16        | CNA4.0x50 | 35.9   | 28.4 | 8.9  | 15.7   |
| GSI900/100/4  |              | 410          | 600             | 100 | 400 | 110 | 2.5       | 34      | 18        | CNA4.0x50 | 39.9   | 31.9 | 9.5  | 16.7   |
| GSI960/100/4  |              | 440          | 645             | 100 | 430 | 110 | 2.5       | 38      | 20        | CNA4.0x50 | 43.9   | 35.5 | 10   | 18.6   |
| GSI1020/100/4 |              | 470          | 690             | 100 | 460 | 110 | 2.5       | 40      | 20        | CNA4.0x50 | 43.9   | 35.5 | 9.5  | 19.6   |
| GSI540/120/4  | 120          | 220          | 315             | 120 | 210 | 110 | 2.5       | 16      | 8         | CNA4.0x50 | 19   | 11.1 | 6.3  | 7.8    |
| GSI600/120/4  |              | 250          | 360             | 120 | 240 | 110 | 2.5       | 20      | 10        | CNA4.0x50 | 23.9   | 16.3 | 7.6  | 9.8    |
| GSI660/120/4  |              | 280          | 405             | 120 | 270 | 110 | 2.5       | 22      | 12        | CNA4.0x50 | 27.9   | 19.2 | 8.7  | 10.8   |
| GSI720/120/4  |              | 310          | 450             | 120 | 300 | 110 | 2.5       | 26      | 14        | CNA4.0x50 | 31.9   | 24.8 | 9.7  | 12.7   |
| GSI780/120/4  |              | 340          | 495             | 120 | 330 | 110 | 2.5       | 28      | 14        | CNA4.0x50 | 31.9   | 24.8 | 9.2  | 13.7   |
| GSI840/120/4  |              | 370          | 540             | 120 | 360 | 110 | 2.5       | 32      | 16        | CNA4.0x50 | 35.9   | 28.4 | 10   | 15.7   |
| GSI900/120/4  |              | 400          | 585             | 120 | 390 | 110 | 2.5       | 34      | 18        | CNA4.0x50 | 39.9   | 31.9 | 10.7 | 16.7   |
| GSI960/120/4  |              | 430          | 630             | 120 | 420 | 110 | 2.5       | 38      | 20        | CNA4.0x50 | 43.9   | 35.5 | 11.4 | 18.6   |
| GSI1020/120/4 |              | 460          | 675             | 120 | 450 | 110 | 2.5       | 40      | 20        | CNA4.0x50 | 43.9   | 35.5 | 10.8 | 19.6   |
| GSI500/140/4  |              | 140          | 190             | 270 | 140 | 180 | 110       | 2.5     | 12        | 6         | CNA4.0x50  | 14.3 | 6.7  | 5.2    |
| GSI540/140/4  | 210          |              | 300             | 140 | 200 | 110 | 2.5       | 14      | 8         | CNA4.0x50 | 16.8   | 8.8  | 6.9  | 6.9    |
| GSI600/140/4  | 240          |              | 345             | 140 | 230 | 110 | 2.5       | 18      | 10        | CNA4.0x50 | 21.8   | 13.6 | 8.3  | 8.8    |
| GSI660/140/4  | 270          |              | 390             | 140 | 260 | 110 | 2.5       | 20      | 10        | CNA4.0x50 | 23.9   | 16.3 | 8    | 9.8    |
| GSI720/140/4  | 300          |              | 435             | 140 | 290 | 110 | 2.5       | 24      | 12        | CNA4.0x50 | 27.9   | 21.3 | 9.3  | 11.8   |
| GSI780/140/4  | 330          |              | 480             | 140 | 320 | 110 | 2.5       | 26      | 14        | CNA4.0x50 | 31.9   | 24.8 | 10.4 | 12.7   |
| GSI840/140/4  | 360          |              | 525             | 140 | 350 | 110 | 2.5       | 30      | 16        | CNA4.0x50 | 35.9   | 28.4 | 11.4 | 14.7   |
| GSI900/140/4  | 390          |              | 570             | 140 | 380 | 110 | 2.5       | 32      | 16        | CNA4.0x50 | 35.9   | 28.4 | 10.9 | 15.7   |
| GSI960/140/4  | 420          |              | 615             | 140 | 410 | 110 | 2.5       | 34      | 18        | CNA4.0x50 | 39.9   | 31.9 | 11.8 | 16.7   |
| GSI1020/140/4 | 450          |              | 660             | 140 | 440 | 110 | 2.5       | 38      | 20        | CNA4.0x50 | 43.9   | 35.5 | 12.5 | 18.6   |

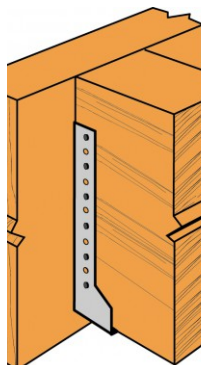
| Références    | Bois porté   |              | Dimensions (mm) |     |     |     | Fixations |         |       | Valeurs caractéristiques bois/bois classe C24 (kN) |           |      |      |        |
|---------------|--------------|--------------|-----------------|-----|-----|-----|-----------|---------|-------|--|-----------|------|------|--------|
|               | Largeur (mm) | Hauteur (mm) |                 | A   | B   | C   | Ep.       | Nb      |       | Type   | Desc.     | Asc. | Lat. | Tract. |
|               |              | Min.         | Max.            |     |     |     |           | Porteur | Porté |  |           |      |      |        |
| GSI500/160/4  | 160          | 180          | 255             | 160 | 170 | 110 | 2.5       | 12      | 6     | CNA4.0x50  | 13.3      | 6.7  | 5.4  | 5.9    |
| GSI540/160/4  |              | 200          | 285             | 160 | 190 | 110 | 2.5       | 14      | 8     | CNA4.0x50  | 15.8      | 8.8  | 7.1  | 6.9    |
| GSI600/160/4  |              | 230          | 330             | 160 | 220 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 23.9      | 16.3 | 8.6  | 8.8    |
| GSI660/160/4  |              | 260          | 375             | 160 | 250 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 23.9      | 16.3 | 8.4  | 9.8    |
| GSI720/160/4  |              | 290          | 420             | 160 | 280 | 110 | 2.5       | 24      | 12    | CNA4.0x50  | 27.9      | 21.3 | 9.7  | 11.8   |
| GSI780/160/4  |              | 320          | 465             | 160 | 310 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 31.9      | 24.8 | 11   | 12.7   |
| GSI840/160/4  |              | 350          | 510             | 160 | 340 | 110 | 2.5       | 30      | 16    | CNA4.0x50  | 35.9      | 28.4 | 12.1 | 14.7   |
| GSI900/160/4  |              | 380          | 555             | 160 | 370 | 110 | 2.5       | 32      | 16    | CNA4.0x50  | 35.9      | 28.4 | 11.7 | 15.7   |
| GSI960/160/4  |              | 410          | 600             | 160 | 400 | 110 | 2.5       | 34      | 18    | CNA4.0x50  | 39.9      | 31.9 | 12.6 | 16.7   |
| GSI1020/160/4 |              | 440          | 645             | 160 | 430 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 35.5 | 13.5 | 18.6   |
| GSI500/180/4  |              | 180          | 170             | 240 | 180 | 160 | 110       | 2.5     | 12    | 6  | CNA4.0x50 | 12.2 | 6.7  | 5.5    |
| GSI540/180/4  | 190          |              | 270             | 180 | 180 | 110 | 2.5       | 14      | 8     | CNA4.0x50  | 14.7      | 8.8  | 7.2  | 6.9    |
| GSI600/180/4  | 220          |              | 315             | 180 | 210 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 23.9      | 16.3 | 8.8  | 8.8    |
| GSI660/180/4  | 250          |              | 360             | 180 | 240 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 23.9      | 16.3 | 8.6  | 9.8    |
| GSI720/180/4  | 280          |              | 405             | 180 | 270 | 110 | 2.5       | 24      | 12    | CNA4.0x50  | 27.9      | 21.3 | 10.1 | 11.8   |
| GSI780/180/4  | 310          |              | 450             | 180 | 300 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 31.9      | 24.8 | 11.4 | 12.7   |
| GSI840/180/4  | 340          |              | 495             | 180 | 330 | 110 | 2.5       | 30      | 16    | CNA4.0x50  | 35.9      | 28.4 | 12.6 | 14.7   |
| GSI900/180/4  | 370          |              | 540             | 180 | 360 | 110 | 2.5       | 32      | 16    | CNA4.0x50  | 35.9      | 28.4 | 12.2 | 15.7   |
| GSI960/180/4  | 400          |              | 585             | 180 | 390 | 110 | 2.5       | 34      | 18    | CNA4.0x50  | 39.9      | 31.9 | 13.3 | 16.7   |
| GSI1020/180/4 | 430          |              | 630             | 180 | 420 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 35.5 | 14.3 | 18.6   |
| GSI500/200/4  | 200          |              | 160             | 225 | 200 | 150 | 110       | 2.5     | 12    | 6  | CNA4.0x50 | 11.1 | 6.7  | 5.5    |
| GSI540/200/4  |              | 180          | 255             | 200 | 170 | 110 | 2.5       | 14      | 8     | CNA4.0x50  | 13.5      | 8.8  | 7.3  | 6.9    |
| GSI600/200/4  |              | 210          | 300             | 200 | 200 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 22.7      | 16.3 | 9    | 8.8    |
| GSI660/200/4  |              | 240          | 345             | 200 | 230 | 110 | 2.5       | 20      | 10    | CNA4.0x50  | 22.7      | 16.3 | 8.8  | 9.8    |
| GSI720/200/4  |              | 270          | 390             | 200 | 260 | 110 | 2.5       | 24      | 12    | CNA4.0x50  | 27.9      | 21.3 | 10.3 | 11.8   |
| GSI780/200/4  |              | 300          | 435             | 200 | 290 | 110 | 2.5       | 26      | 14    | CNA4.0x50  | 31.9      | 24.8 | 11.8 | 12.7   |
| GSI840/200/4  |              | 330          | 480             | 200 | 320 | 110 | 2.5       | 30      | 16    | CNA4.0x50  | 35.9      | 28.4 | 13.1 | 14.7   |
| GSI900/200/4  |              | 360          | 525             | 200 | 350 | 110 | 2.5       | 32      | 16    | CNA4.0x50  | 35.9      | 28.4 | 12.7 | 15.7   |
| GSI960/200/4  |              | 390          | 570             | 200 | 380 | 110 | 2.5       | 34      | 18    | CNA4.0x50  | 39.9      | 31.9 | 13.9 | 16.7   |
| GSI1020/200/4 |              | 420          | 615             | 200 | 410 | 110 | 2.5       | 38      | 20    | CNA4.0x50  | 43.9      | 35.5 | 15   | 18.6   |

Les dimensions A, B et C sont les dimensions intérieures du sabot.

GALERIE HD



Clouage total  
sur bois



Clouage partiel  
sur bois



## MISE EN ŒUVRE

## Fixations

Pour garantir les charges, les pointes et vis utilisées doivent être conformes à l'ETA-04/0013. La fixation sur support rigide nécessite l'emploi de fixations marquées CE, les préconisations du fabricant doivent être respectées.

**Sur porté :**

- Pointes annelées CNA Ø4.0 x 50 mm.
- Pointes annelées CNA Ø4.0 x 35 mm pour les épaisseurs inférieures à 64 mm.
- Vis CSA Ø5.0 x 40 mm.
- Vis CSA Ø5.0 x 35 mm pour les épaisseurs inférieures à 60 mm

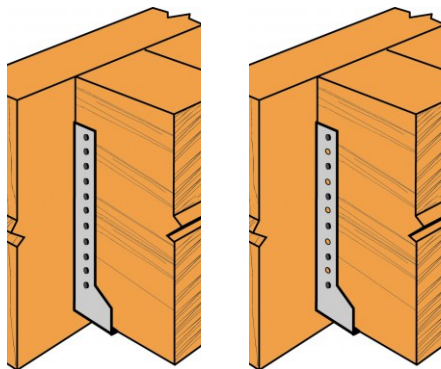
**Sur porteur :****Support bois :**

- Pointes annelées CNA Ø4.0 x 50 mm.
- Pointes annelées CNA Ø4.0 x 35 mm pour les épaisseurs inférieures à 64 mm.
- Vis CSA Ø5.0 x 40 mm.
- Vis CSA Ø5.0 x 35 mm pour les épaisseurs inférieures à 60 mm.

**Support acier :**

- Boulons Ø12 ou Ø10 mm (le diamètre du boulon ne peut être inférieur de plus de 2 mm à celui du perçage).

**ATTENTION : Les sabots ailes intérieures ne sont pas préconisés sur support béton et maçonnerie.**

Clouage total  
sur boisClouage partiel  
sur bois